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Water Supply Outlook For Nevada



SOIL CONSERVATION SERVICE
U.S. DEPARTMENT OF AGRICULTURE

Cooperating with

NEVADA DEPARTMENT of CONSERVATION
AND NATURAL RESOURCES
DIVISION OF WATER RESOURCES

AS OF
OCT. 1, 1979

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: VIEW OF A SNOTEL DATA SITE IN THE SNOWY RANGE IN WYOMING. TALL CYLINDRICAL DEVICE IS A PRECIPITATION GAGE. SNOW PILLOWS ON THE GROUND NOT VISIBLE DUE TO SNOW COVER. SHELTER HOUSE, ANTENNA TOWER, ANTENNA, AND TEMPERATURE UNIT ARE VISIBLE BEHIND THE PRECIPITATION GAGE.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno, Nevada 89505
Oregon	1220 S. W. Third Ave., Portland, Oregon 97204
Utah	4420 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U. S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta T3C 1A6.



WATER SUPPLY OUTLOOK FOR NEVADA

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

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ALL AVERAGES ARE FOR 1963-77

WATER SUPPLY OUTLOOK FOR NEVADA

STREAMFLOWS FOR THE PERIOD APRIL 1 THROUGH JULY 31 WERE NEAR THE APRIL 1, 1979 PREDICTIONS. THEY WERE AVERAGE TO MUCH BELOW AVERAGE FOR MOST STREAMS AFFECTING NEVADA'S IRRIGATED AREAS, DEPENDING ON SURFACE WATER. THE CARSON, WALKER AND UPPER HUMBOLDT RIVERS HAD NEAR AVERAGE WHILE LAKE TAHOE RISE AND THE TRUCKEE RIVER WERE MUCH BELOW. LAKE TAHOE RISE HAS NOW BEEN BELOW AVERAGE FOUR CONSECUTIVE YEARS.

RESERVOIR STORAGE IN SEVEN MAJOR RESERVOIRS AFFECTING THE IRRIGATED AREAS IS 55 PERCENT OF AVERAGE, SLIGHTLY HIGHER THAN LAST YEAR'S 42 PERCENT. HOWEVER, LAKE TAHOE CONTAINS 101,000 ACRE-FEET COMPARED TO LAST YEAR'S 131,000 ACRE-FEET AND A 15-YEAR AVERAGE OF 456,000 ACRE-FEET. THE WATER LEVEL IS ONLY TEN INCHES ABOVE THE BOTTOM OF THE OUTLET GATES.

Streamflows on the Sierra's eastern slopes ranged from 66 percent on the Little Truckee to 101 percent on the East Walker River near Bridgeport. Lake Tahoe Rise was 80 percent while the Truckee River at Farad was 67 percent of average. The Carson River and its tributaries ranged from 87 percent at Ft. Churchill to 95 percent on the East Carson near Gardnerville.

The Walker River had flows of 99 percent to the West Walker and 101 percent to the East Walker.

Streamflows on the Humboldt River were 96 percent at Palisade and 95 percent at Comus. No other streamflow data is available at this time.

Storage in the reservoirs since last October 1 has nearly doubled in Rye Patch. Wildhorse Reservoir is slightly increased and reservoirs receiving water from the Sierras decreased.

A comparison is shown for the Truckee-Tahoe Basins for the past six years.

TRUCKEE-TAHOE BASINS

Year	Percent Snow Water as of April 1	Actual Streamflow		Reservoir Storage**	
		Truckee River at Farad April 1-July 31 (1,000 Ac. Ft.)	Lake Tahoe Stage Rise in Feet* April 1 to High Elev.	(1,000 Ac. Ft.) April 1	October 1
1979	87	187	1.13	237	215
1978	128	318	1.37	188	253
1977	33	51	.31	208	42
1976	47	59	.21	668	398
1975	158	367	1.92	756	785
1974	115	297	1.63	868	827
1963-77 Average	100	273	1.42	653***	626***

* One foot of rise equals approximately 122,000 acre-feet.

** Total of useable storage in Lake Tahoe, Boca, Stampede and Prosser.

*** Stampede and Prosser have 7 and 14-year averages, respectively, included in this total.

These comparisons show the Lake Tahoe Rise has been below average for the last four years, 1976 and 1977 being drought years. Although the snowpack in 1978 was above average, Lake Tahoe still had below average rise. The present October 1 storage is above last year's and only slightly below the April 1, 1979 figure, but only 27 percent of the amount available on October 1, 1975 before the drought. This year's storage is 34 percent of average.

Lake Tahoe storage is limited to the 6.1 feet between 6223.0 feet and 6229.1 feet elevations. The September 30 level was 6223.84, only ten inches above the bottom of the outlet gates. The high elevations attained each year since 1974 are:

June 11, 1979	-	6225.15'
July 11, 1978	-	6225.20'
June 11, 1977	-	6224.22'
May 23, 1976	-	6227.04'
July 16, 1975	-	6228.60'
July 10, 1974	-	6228.92'

In the Southern part of the state, Lake Mead is 129 percent of average and contains 22,242,000 acre-feet of water, some 1,378,000 feet above last year.

Above average precipitation and snowpack this winter is again needed to assure average water supplies for next season.

APRIL - JULY 1979
NEVADA STREAMFLOW FORECASTS
AND
OBSERVED STREAMFLOW

The following table contains April-July forecasts made during the past winter. Observed streamflow quantities are provisional as furnished by the U. S. Geological Survey.

FORECAST STREAMS	April - July Streamflow (Thousand Acre-feet)						
	Forecast				Observed		
	Feb. 1 1979	Mar. 1 1979	Apr. 1 1979	May 1 1979	1979	Average 1963-77	Observed 1979 as % of 15- yr. avg.
<u>TRUCKEE RIVER</u>							
Little Truckee above Boca, CA ¹	52	62	62	58	57	87	66
Truckee at Farad, CA ¹	163	200	205	192	184	273	67
Lake Tahoe Rise, CA ³	1.02	1.15	1.15	1.13	1.13	1.42	80
<u>CARSON RIVER</u>							
E. Carson nr Gardnerville, NV	162	180	190	186	177	187	95
E. Carson nr Gardnerville, NV (Date of 200 c.f.s. flow)	-	7/21	7/22	7/22	7/13	7/24	-
W. Carson at Woodfords, CA	43	50	53	52	48	53	91
Carson nr Carson City, NV	141	166	175	166	160	183	87
Carson nr Ft. Churchill, NV	129	150	160	145	148	167	89
<u>WALKER RIVER</u>							
E. Walker nr Bridgeport, CA ²	62	64	70	72	70	69	101
W. Walker below Little Walker near Coleville, CA	125	145	155	150	145	146	99
<u>HUMBOLDT RIVER</u>							
Humboldt at Palisade, NV	181	204	208	177	213	221	96
Humboldt at Comus, NV	142	150	157	137	167	175	95

¹ Corrected for storage above station.

² April-August flow, corrected for storage.

³ Maximum rise in feet from April 1, assuming gates closed.

RESERVOIR STORAGE STATUS
October 1, 1979

Basin and Stream	Reservoir	Usable Capacity (1,000 AF)	Usable Storage - 1,000 acre-feet			
			1979	1978	1977	15-year Average 1963-77
Owyhee	Wild Horse	72	32	27	20	28
Lower Humboldt	Rey Patch	172	104	54	50	109
Colorado	Mohave	1,810	1,428	1,484	1,465	1,413
Colorado	Mead	26,159	22,242	20,864	20,205	17,248
Tahoe	Tahoe	732	101	131	0	456
Truckee	Boca	41	31	36	5	20
Truckee	Prosser	30*	26	25	6	14**
Truckee	Stampede	220	57	61	31	136**
Carson	Lahontan	291	140	163	22	138
West Walker	Topaz	59	11	31	0	19
East Walker	Bridgeport	42	11	30	0	16

* Flood control use allocation of 20,000 AF between November 1 and April 10.

** Prosser storage began 1/30/63; Stampede storage began 8/1/69.

PRECIPITATION (Inches)

BASIN AND PRECIPITATION GAGE LOCATION	ELEVATION	PERIOD OF MEASUREMENT	CURRENT RECORD		PAST RECORD
			ACCUM. PRECIP. FOR THE PERIOD	ACCUM. PRECIP. SINCE 10/1/78	ACCUM. PRECIP. PREVIOUS YEAR
TAHOE-TRUCKEE					
Echo Peak (CA)	7,800	4/25 - 9/11/79	6.9	41.6	54.7
Fallen Leaf (CA)	6,240	3/23 - 3/31/79			
		4/1 - 4/30/79	2.6	20.5	
		5/1 - 5/31/79*	2.0	22.5	
		6/1 - 6/30/79*	0.0	22.5	
		7/1 - 7/31/79*	1.2	23.7	
		8/1 - 8/31/79*	0.1	23.8	
		9/1 - 9/30/79*	0.0	23.8	36.1
Hagens Meadow (CA)	8,000	4/25 - 4/30/79		28.3	
		5/1 - 5/31/79*	2.2	30.5	
		6/1 - 6/30/79*	0.0	30.5	
		7/1 - 7/31/79*	2.2	32.7	
		8/1 - 8/31/79*	0.6	33.3	
		9/1 - 9/30/79*	0.0	33.3	38.2
Heavenly Valley (CA)	8,800	4/25 - 4/30/79		26.4	
		5/1 - 5/31/79*	2.7	29.1	
		6/1 - 6/30/79*	0.3	29.4	
		7/1 - 7/31/79*	2.8	32.2	
		8/1 - 8/31/79*	0.3	32.5	
		9/1 - 9/30/79*	0.2	32.7	39.1
Independence Camp (CA)	7,000	4/27 - 4/30/79		25.5	
		5/1 - 5/31/79*	2.5	28.0	
		6/1 - 6/30/79*	0.7	28.7	
		7/1 - 7/31/79*	0.6	29.3	
		8/1 - 8/31/79*	0.1	29.4	
		9/1 - 9/30/79*	0.1	29.5	39.6
Independence Creek (CA)	6,500	4/27 - 5/28/79	2.0	23.7	
		5/28 - 7/31/79	1.1	24.8	
		7/31 - 9/ 1/79	0.3	25.1	40.0
Independence Lake (CA)	8,450	4/27 - 4/30/79		26.8	
		5/1 - 5/31/79*	2.8	29.6	
		6/1 - 6/30/79*	0.2	29.8	
		7/1 - 7/31/79*	0.9	30.7	
		8/1 - 8/31/79*	1.1	31.8	
		9/1 - 9/30/79*	0.0	31.8	49.3
Marlette Lake	8,000	4/25 - 4/30/79		28.6	
		5/1 - 5/31/79*	2.3	30.9	
		6/1 - 6/30/79*	0.1	31.0	
		7/1 - 7/31/79*	0.9	31.9	
		8/1 - 8/31/79*	0.6	32.5	
		9/1 - 9/30/79*	0.0	32.5	40.7
Mt. Rose	9,000	4/27 - 4/30/79		25.0	
		5/1 - 5/31/79*	2.7	27.7	
		6/1 - 6/30/79*	0.4	28.1	
		7/1 - 7/31/79*	1.2	29.3	
		8/1 - 8/31/79*	1.4	30.7	
		9/1 - 9/30/79*	0.1	30.8	29.4
Mt. Rose Ski Area	9,000	4/25 - 6/ 1/79	2.8	47.1	
		6/1 - 7/25/79	1.2	48.3	
		7/25 - 9/13/79	1.6	49.9	--
Rubicon #2 (CA)	7,500	4/25 - 5/30/79	4.4	37.5	
		5/30 - 9/25/79	0.0	37.5	49.5
Tahoe City Cross (CA)	6,750	3/28 - 5/30/79	5.3	31.6	
		5/30 - 6/12/79	1.1	32.7	
		6/12 - 7/25/79	0.4	33.1	
		7/25 - 9/ 8/79	0.0	33.1	33.8
Truckee #2 (CA)	6,400	3/27 - 5/30/79	6.5	25.8	
		5/30 - 6/13/79	0.0	26.8	
		6/13 - 9/ 7/79	0.9	27.7	39.1
Ward Creek #3 (CA)	6,750	4/27 - 5/30/79*	3.7	56.3	
		5/30 - 7/26/79*	1.4	57.7	
		7/26 -- 8/ 2/79*	0.6	58.3	
		8/2 - 9/15/79*	0.8	59.1	67.7
CARSON-WALKER					
Blue Lakes (CA)	8,000	2/27 - 7/ 7/79	12.7	39.4	53.3
Ebbetts Pass (CA)	8,700	4/25 - 4/30/79		44.8	
		5/1 - 5/31/79*	4.6	49.4	
		6/1 - 6/30/79*	0.3	49.7	
		7/1 - 7/31/79*	0.7	50.4	
		8/1 - 8/31/79*	0.0	50.4	
		9/1 - 9/30/79*	0.0	50.4	49.8

*SNJTEL Provisional

PRECIPITATION (Inches)

BASIN AND PRECIPITATION GAGE LOCATION	ELEVATION	PERIOD OF MEASUREMENT	CURRENT RECORD		PAST RECORD
			ACCUM. PRECIP. FOR THE PERIOD	ACCUM. PRECIP. SINCE 10/1/78	ACCUM. PRECIP. PREVIOUS YEAR
CARSON-WALKER (contd.)					
Leavitt Meadows (CA)	7,200	12/27/78 - 1/26/79	2.6	8.2	
		1/26 - 2/27/79	7.2	15.4	
		3/29 - 4/25/79	4.0	19.4	
		4/25 - 8/ 8/79	1.4	21.6	--
Lobdell Lake (CA)	9,200	4/25 - 4/30/79		19.9	
		5/1 - 5/31/79*	1.4	21.3	
		6/1 - 6/30/79*	0.0	21.3	
		7/1 - 7/31/79*	0.7	22.0	
		8/1 - 8/31/79*	0.7	22.7	
		9/1 - 9/30/79*	0.0	22.7	31.0
Poison Flat (CA)	7,900	4/25 - 9/24/79	3.3	33.2	33.0
Sonora Pass Bridge (CA)	8,800	4/25 - 4/30/79		30.7	
		5/1 - 5/31/79*	1.9	32.6	
		6/1 - 6/30/79*	0.4	33.0	
		7/1 - 7/31/79	0.0	33.0	
		8/1 - 8/31/79*	0.2	33.2	
		9/1 - 9/30/79*	0.1	33.3	45.5
Virginia Lakes Ridge (CA)	9,200	4/25 - 4/30/79		24.8	
		5/1 - 5/31/79*	1.7	26.5	
		6/1 - 6/30/79*	0.1	26.6	
		7/1 - 7/31/79*	0.0	26.6	
		8/1 - 8/31/79*	1.2	27.8	
		9/1 - 9/30/79*	0.1	27.9	38.2
Wet Meadows Lake (CA)	8,100	4/25 - 7/ 7/79	0.0	36.5	
		7/7 -	0.0	36.5	--
HUMBOLDT					
Big Creek Summit	8,700	3/27 - 6/29/79	7.9	26.8	
		6/29 - 8/ 3/79	0.5	27.3	
		8/3 - 10/ 1/79	3.5	30.8	--
Buckskin, Lower	6,700	3/26 - 6/19/79	9.8	23.4	
		6/19 - 7/24/79	0.4	23.8	
		7/24 - 9/19/79	0.1	23.9	--
Corral Canyon	8,500	4/26 - 4/30/79		21.3	
		5/1 - 5/31/79*	3.5	24.8	
		6/1 - 6/30/79*	1.4	26.2	
		7/1 - 7/31/79*	1.1	27.3	
		8/1 - 8/31/79*	0.0	27.3	
		9/1 - 9/30/79*	0.7	28.0	31.7
Dorsey Basin	8,100	4/24 - 4/30/79		25.0	
		5/1 - 5/31/79*	3.4	28.3	
		6/1 - 6/30/79*	2.6	30.9	
		7/1 - 7/31/79*	0.3	31.2	
		8/1 - 8/31/79*	0.0	31.2	
		9/1 - 9/30/79*	1.7	32.9	33.7
Granite Peak	7,800	3/26 - 6/20/79	9.4	27.6	
		6/20 - 7/24/79	0.5	28.1	
		7/24 - 9/19/79	0.0	28.1	--
Green Mountain	8,000	4/26 - 8/14/79	7.9	30.4	--
Lamance Creek	6,000	3/26 - 6/21/79	7.5	23.2	
		6/21 - 7/24/79	0.2	23.4	
		7/24 - 9/19/79	2.4	25.8	30.3
Lambille #3	7,700	4/26 - 6/28/79	6.6	27.4	
		6/28 - 9/25/79	0.2	27.6	33.5
Martin Creek	6,700	3/26 - 6/20/79	6.1	23.7	
		6/20 - 7/24/79	0.0	23.7	
		7/24 - 9/19/79	1.2	24.9	--
Rodeo Flat	6,800	4/26 - 8/17/79	4.0	16.7	
		8/17 - 9/27/79	1.8	18.5	21.1
Trout Creek, Lower	6,900	3/28 - 9/28/79	8.0	18.5	--

*SNOTEL Provisional

PRECIPITATION (Inches)

BASIN AND PRECIPITATION GAGE LOCATION	ELEVATION	PERIOD OF MEASUREMENT	CURRENT RECORD		FAST RECORD
			ACCUM. PRECIP. FOR THE PERIOD	ACCUM. PRECIP. SINCE 10/1/78	ACCUM. PRECIP. PREVIOUS YEAR
<u>SNAKE-OWYHEE</u>					
Bear Creek	7,800	4/26 - 4/30/79		23.0	
		5/1 - 5/31/79*	6.1	29.1	
		6/1 - 6/30/79*	1.3	30.4	
		7/1 - 7/31/79*	2.1	32.5	
		8/1 - 8/31/79*	0.6	33.1	
		9/1 - 9/30/79*	0.4	33.5	31.7
Big Bend	6,700	4/26 - 4/30/79		12.4	
		5/1 - 5/31/79*	3.0	15.4	
		6/1 - 6/30/79*	0.8	16.2	
		7/1 - 7/31/79*	0.8	17.0	
		8/1 - 8/31/79*	0.6	17.6	
		9/1 - 9/30/79*	0.1	17.7	20.5
Fawn Creek	7,000	4/26 - 6/27/79	8.4	33.4	
		6/27 - 8/16/79	0.0	33.4	--
Goat Creek	8,800	4/27 - 6/27/79	6.5	30.1	
		6/27 - 8/16/79	3.8	33.9	30.8
Jack Creek, Upper	7,250	4/26 - 4/30/79		20.9	
		5/1 - 5/31/79*	4.1	25.0	
		6/1 - 6/30/79*	2.0	27.1	
		7/1 - 7/31/79*	1.0	28.1	
		8/1 - 8/31/79*	0.7	28.8	
		9/1 - 9/30/79*	0.6	29.4	29.1
Jacks Peak	8,420	4/26 - 8/17/79	10.1	36.8	29.9
Laurel Draw	6,700	4/26 - 8/16/79	5.6	24.2	
		8/16 - 9/25/79*			--
Pole Creek Ranger Station	8,330	4/27 - 6/27/79	5.3	21.3	
		6/27 - 8/16/79	2.1	22.4	25.6
76 Creek	7,100	4/26 - 4/30/79		19.8	
		5/1 - 5/31/79*	1.2	21.0	
		6/1 - 6/30/79*	0.6	21.6	
		7/1 - 7/31/79*	1.4	23.0	
		8/1 - 8/31/79*	0.9	23.9	
		9/1 - 9/30/79*	0.1	24.0	20.0
Taylor Canyon	6,200	5/30 - 8/17/79	3.8	12.8	
		8/17 - 9/ 5/79	0.2	13.0	
		9/5 - 9/27/79	0.7	13.7	15.9
<u>EASTERN NEVADA</u>					
Berry Creek	9,100	4/26 - 6/28/79	4.0	21.9	
		6/28 - 8/ 2/79	1.1	23.0	
		8/2 - 9/ 5/79	1.6	24.6	28.7
Hole-in-Mountain	7,900	3/28 - 6/27/79	7.7		--
Ward Mountain	8,900	4/26 - 6/28/79	2.2	23.3	
		6/28 - 7/31/79	2.2	25.5	--
<u>NORTHERN GREAT BASIN</u>					
Cedar Pass (CA)	7,100	4/27 - 4/30/79		26.0	
		5/1 - 5/31/79*	2.9	28.9	
		6/1 - 6/30/79*	0.9	29.8	
		7/1 - 7/31/79*	0.5	30.3	
		8/1 - 8/31/79*	0.6	30.9	
		9/1 - 9/30/79*	1.4	32.3	34.0
Disaster Peak	6,500	3/26 - 6/19/79	3.5	18.4	
		6/19 - 9/18/79	3.5	21.9	--

*SNOTEL Provisional

SNOTEL

The operational SNOTEL (snow telemetry) sites now total twenty-two. These sites provide snow water equivalent, precipitation, and temperature twice a day. More readings may be acquired during the day if needed. The data from these sites provides all water users an up-to-date account for water management decisions, especially during water shortage periods.

Data from sites representing several basins in the state is included in this report. Information on other sites may be obtained from the Soil Conservation Service, P.O. Box 4850, Reno, Nevada 89505.

The sites now operational are:

TRUCKEE-TAHOE BASIN

- Echo Peak
- Fallen Leaf
- Hagans Meadow
- Heavenly Valley
- Independence Camp
- Independence Lake
- Marlette Lake
- Mt. Rose
- Ward Creek #3

CARSON-WALKER RIVER BASINS

- Ebbetts Pass
- Lobdell Lake
- Sonora Pass Bridge
- Virginia Lakes Ridge

HUMBOLDT RIVER BASIN

- Corral Canyon
- Dorsey Basin
- Green Mountain

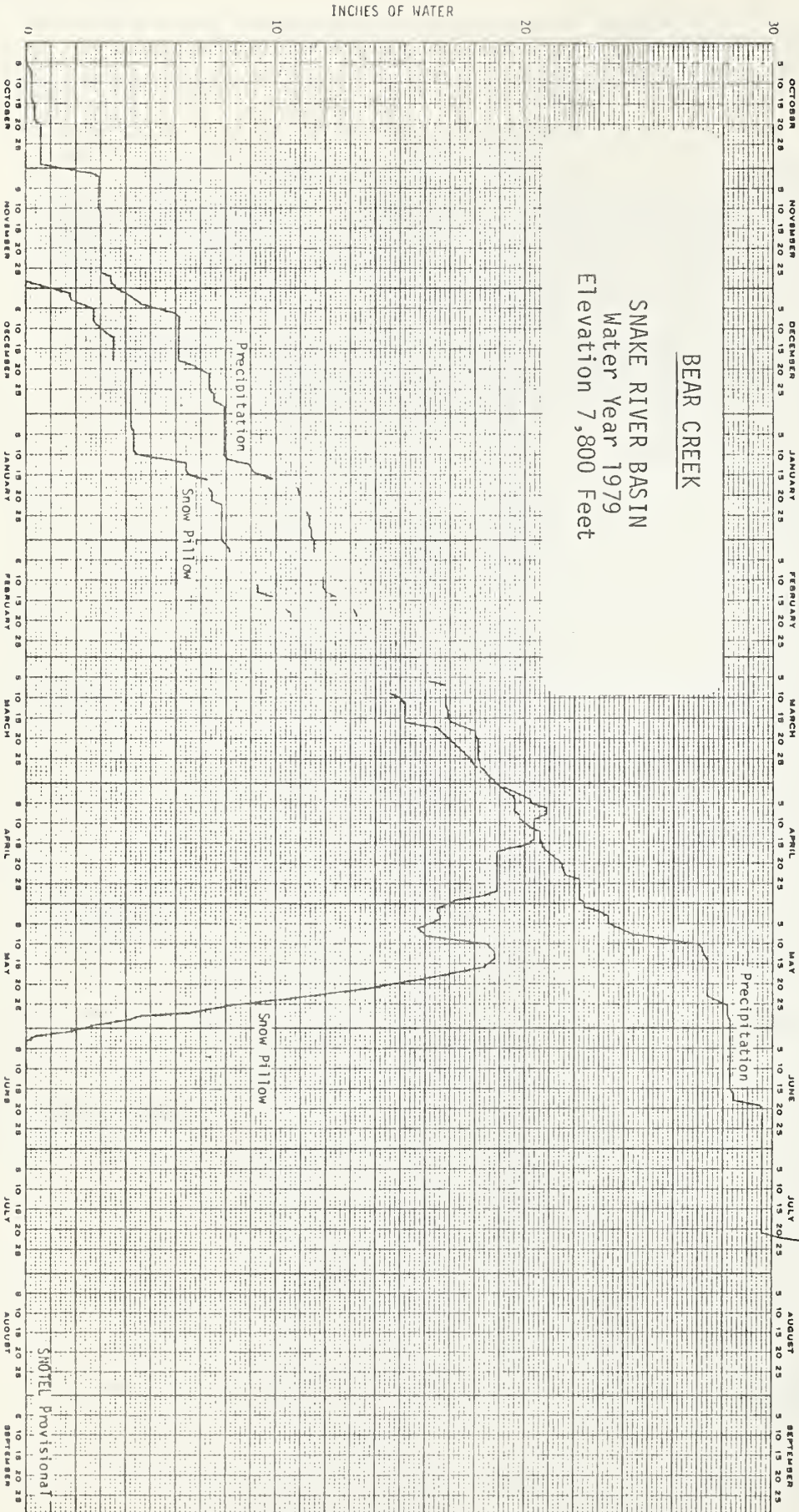
SNAKE RIVER BASIN

- Bear Creek
- Big Bend
- Jack Creek, Upper
- Laurel Draw
- 76 Creek

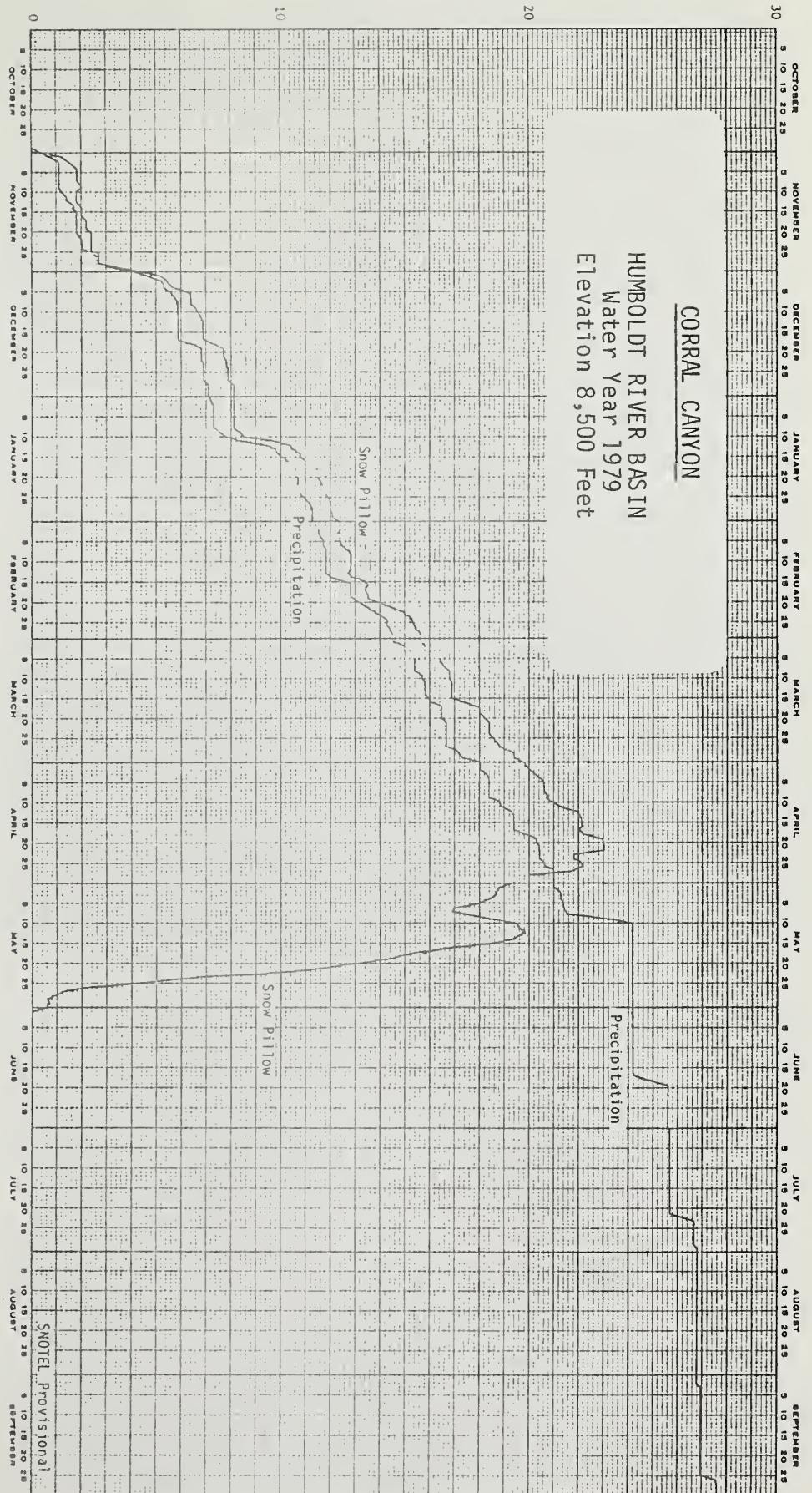
NORTHERN GREAT BASIN

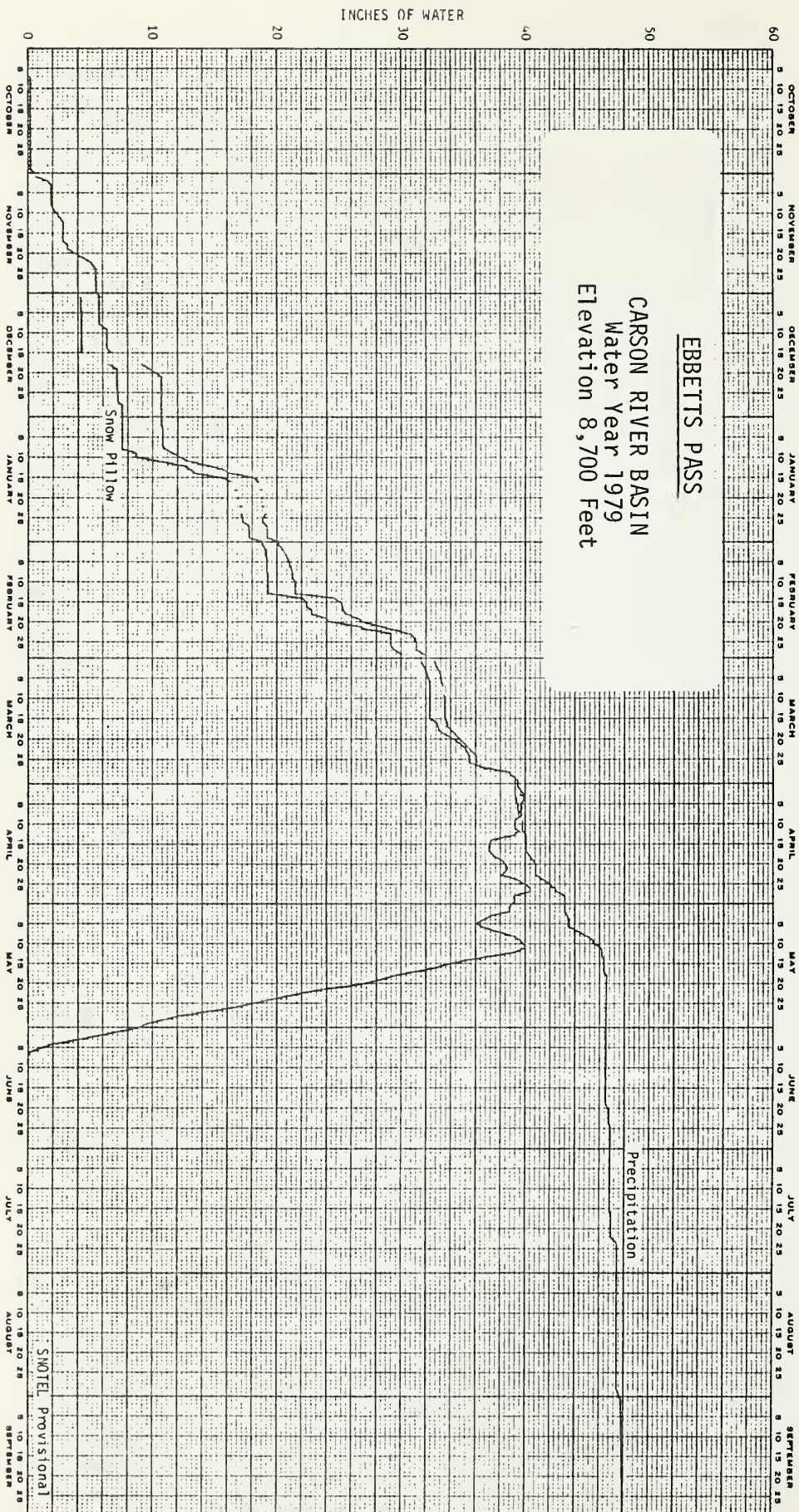
- Cedar Pass

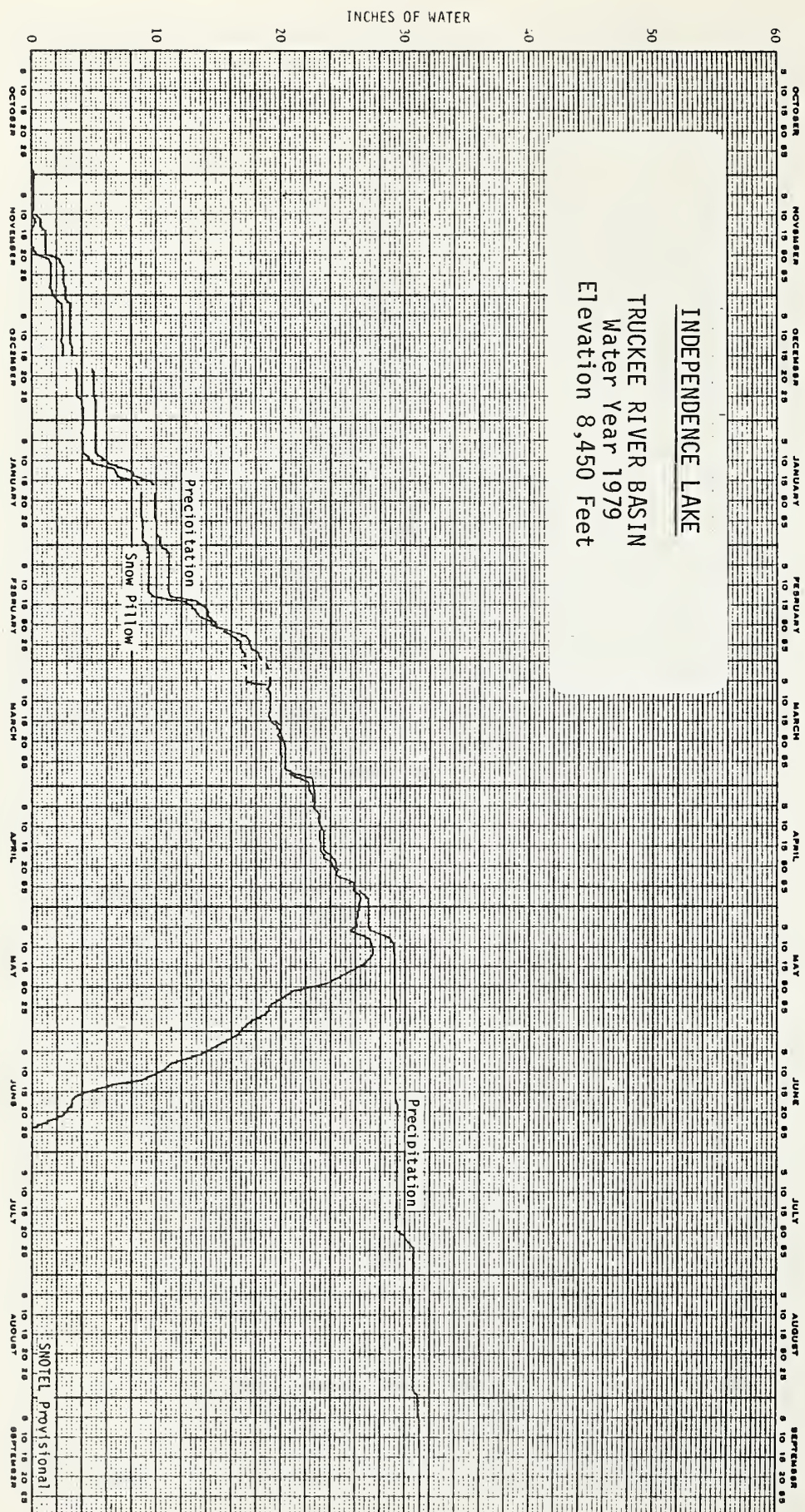
BEAR CREEK SNAKE RIVER BASIN Water Year 1979 Elevation 7,800 Feet

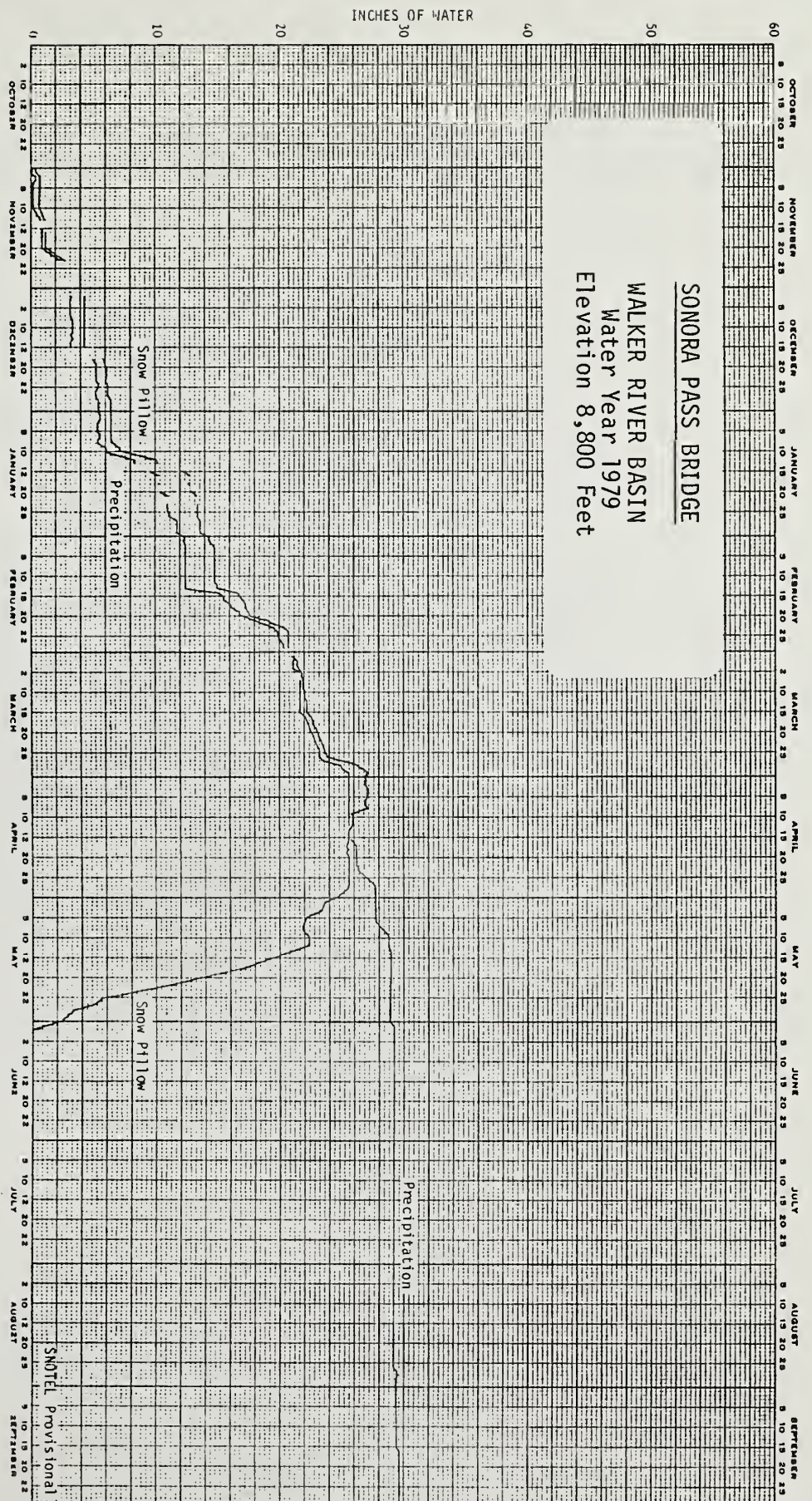


INCHES OF WATER









Agencies Cooperating in Collecting Data Contained in this Bulletin

FEDERAL

- Agricultural Research Service
- Bureau of Reclamation
- Fish and Wildlife Service
- Forest Service
- Geological Survey
- Navy
- Soil Conservation Service
- U. S. District Court - Federal Water Master
- NOAA, National Weather Service

STATE

- California Cooperative Snow Surveys
- California Department of Parks and Recreation
- California Department of Water Resources
- Colorado River Commission of Nevada
- Idaho Cooperative Snow Surveys
- Nevada Association of Conservation Districts
- Nevada Department of Conservation & Natural Resources
 - Division of Water Resources
 - Nevada State Forester
- Oregon Cooperative Snow Surveys
- Utah Cooperative Snow Surveys
- White Mountain Research Station, Univ. of California

PRIVATE

- Amalgamated Sugar Company
- Kennecott Copper Corporation
- Nevada Irrigation District
- Owyhee Project North Board of Control
- Owyhee Project South Board of Control
- Pacific Gas and Electric Company
- Pershing County Water Conservation District
- Sierra Pacific Power Company
- Truckee-Carson Irrigation District
- Walker River Irrigation District
- Washoe County Water Conservancy District

Other organizations and individuals furnish valuable information for the snow survey reports. Their Cooperation is gratefully acknowledged.

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

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generation , navigation ,
mining and industry

*"The Conservation of Water begins
with the Snow Survey"*